

## Message Text

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ACTION EB-07

INFO OCT-01 CIAE-00 COME-00 DODE-00 NSAE-00 USIA-06

TRSE-00 EUR-12 ERDA-05 ISO-00 EA-07 /038 W

-----141236Z 122979 /40

R 132109Z MAY 77

FM USMISSION OECD PARIS

TO SECSTATE WASH DC 6639

INFO AMEMBASSY TOKYO

C O N F I D E N T I A L OECD PARIS 14238

EXCON

E.O. 11652: XGDS1

TAGS: ESTC, COCOM, JA, UR

SUBJECT: JAPANESE SALE OF CNC EQUIPMENT TO USSR IL 1091

REF: A) STATE 75764, B) OECD PARIS 10382 (NOTAL)

C) TOKYO 1664

1. JAPANESE DEL HAS PROVIDED WRITTEN RESPONSES TO U.S. DEL'S QUESTIONS AND COMMENTS ADDRESSED TO HIM PURSUANT TO REFTEL A INSTRUCTIONS. COPY OF JAPANESE LETTER WITH ACCOMPANYING DIAGRAM, SPECIFICATIONS AND OTHER DESCRIPTIVE MATERIAL, AS WELL AS CATALOGUES, HANDED TO KRATZ AND MISKELL HERE MAY 11 BY JAPANESE DEL SAITO AND TOSHIO KOJIMA, AN OFFICIAL OF FUJITSU FANUC LTD., THE MANUFACTURER. KOJIMA WAS JAPANESE TECHNICAL EXPERT IN TALKS ON IL 1091. COPIES BEING POUCHED ALSO TO PRACHT 5/12, WALINSKY AND SCHROEDER 5/12.

2. THE NC UNITS THAT FRANCE IS USING IN THIS TRANSACTION ARE THE 2000C AND 3000C SYSTEMS. THESE UNITS ARE MICROPROCESSOR-BASED CONTROL UNITS AND USE ROM'S AS THE PRIMARY MEMORY DEVICE. U.S. OPINION IS THAT THESE UNITS ARE CNC UNITS. (THEY ARE ADVERTISED  
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AS SUCH IN FANUC LITERATURE.) JAPANESE DEL ARGUED THAT SINCE THE UNITS USED ROM'S, WHICH ARE NOT READ/ WRITE MEMORY, THEY WERE NOT FREELY PROGRAMMABLE AND HENCE WERE NOT CNC UNITS. U.S. EXPERTS ANSWERED THAT USE OF MICROPROCESSOR WAS THE PRINCIPAL GROUND FOR CONSIDERING THESE UNITS CNC, NOT THE USE OF ROM'S.

3. KOJIMA EXPRESSED OPINION THAT ALL THE CENTRAL UNITS WERE LIMITED TO 2 AXES (THE 2000C IS A 2-AXIS SYSTEM, THE 3000C IS 2 OUT OF 3 AXES STANDARD, 3 AND 4 AXES OPTIONAL). IN THE SYSTEM DESCRIBED BY KOJIMA, THE NC UNITS ARE CONNECTED TO A MEMORY DEVICE AND NOT TO A HOST COMPUTER. AS SUCH THE SYSTEM MEETS THE SPECIFICS OF NOTE 3 ITEM D(6) BUT NOT ITS INTENT.

4. IF THE MACHINE TOOLS IN THE TRANSACTION FALL WITHIN THE CURRENT PARAMETERS OF ITEM B AND THERE ARE NO POSITIONING AXES, (VERY UNLIKELY FOR ALL MACHINE TOOLS) THE CONTROL UNITS MIGHT BE EXPORTABLE UNDER AN 3 OF 1091.

5. THE MANUFACTURING SYSTEM IN WHICH THE CONTROL UNITS AND MACHINE TOOLS WILL BE INTEGRATED WAS DESCRIBED BY KOJIMA AS NOT BEING A DNC SYSTEM. THIS IS BASED PRIMARILY ON THE FACT THAT THE HOST COMPUTER CANNOT ADDRESS THE CONTROL UNIT DIRECTLY. IT DOES NOT HAVE THE AUTOMATICITY OF MANY DNC SYSTEMS. IT APPEARS TO BE A COST-EFFECTIVE SYSTEM, BUT WITH THE ADDITION OF SOME MULTIPLEXING HARDWARE AND SOFTWARE, THE SYSTEM COULD BE UPGRADED TO A SOPHISTICATED UNIT THAT IS DEFINITELY COVERED BY 1091, ITEM (C).  
KATZ

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## Message Attributes

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**Review Markings:**  
Margaret P. Grafeld  
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